

FIG.1

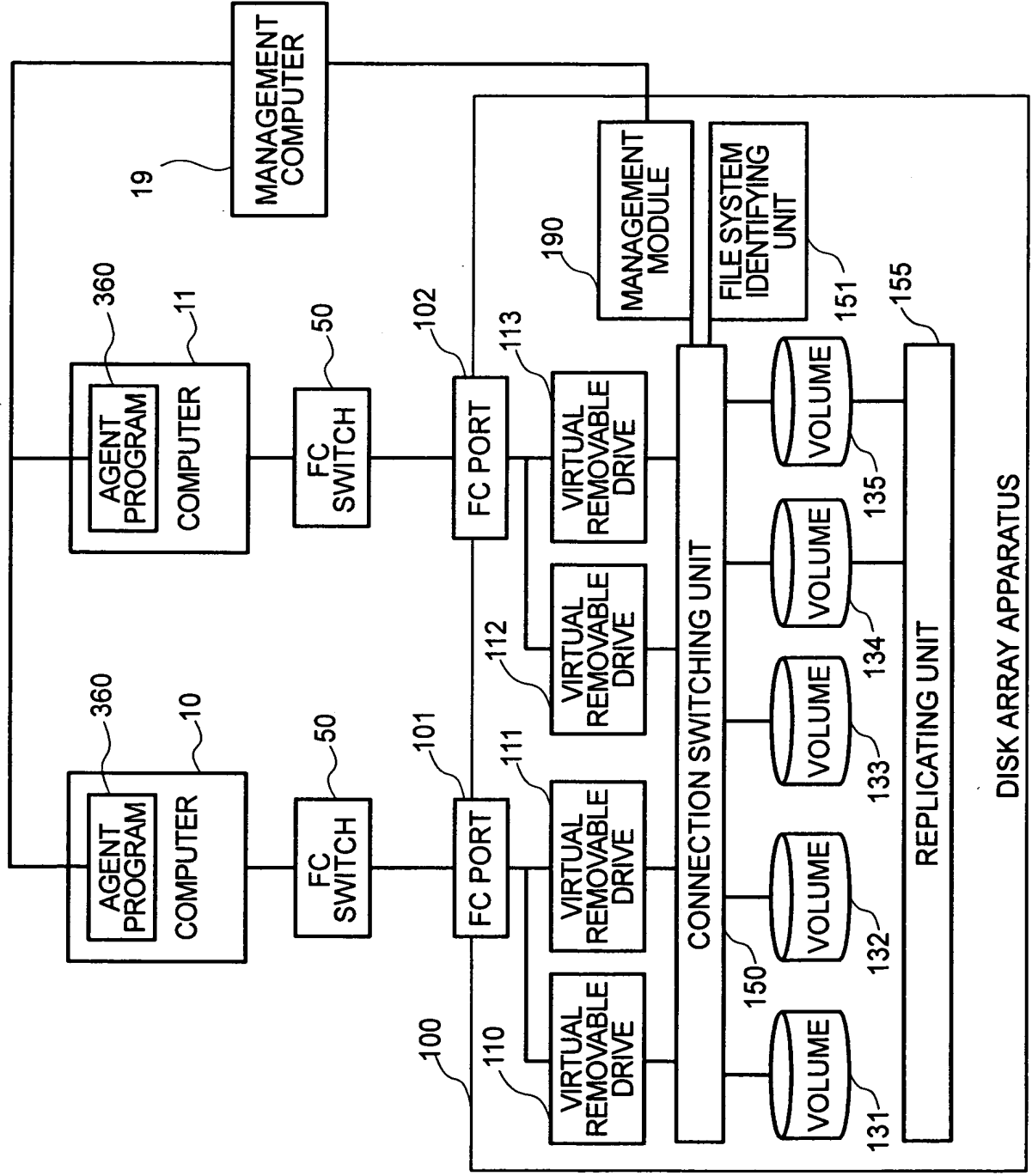


FIG. 2 is a block diagram of a disk array apparatus. The apparatus includes two FC ports (101, 102) connected to a switching unit (150) and a management module (190). The switching unit is connected to a replicating unit (155) and a file system identifying unit (151). The replicating unit is connected to a cache memory (210) and a disk controller module (220). The cache memory and disk controller module are connected to a grid of disks (131-135). Each disk is labeled 'DISK 290'.

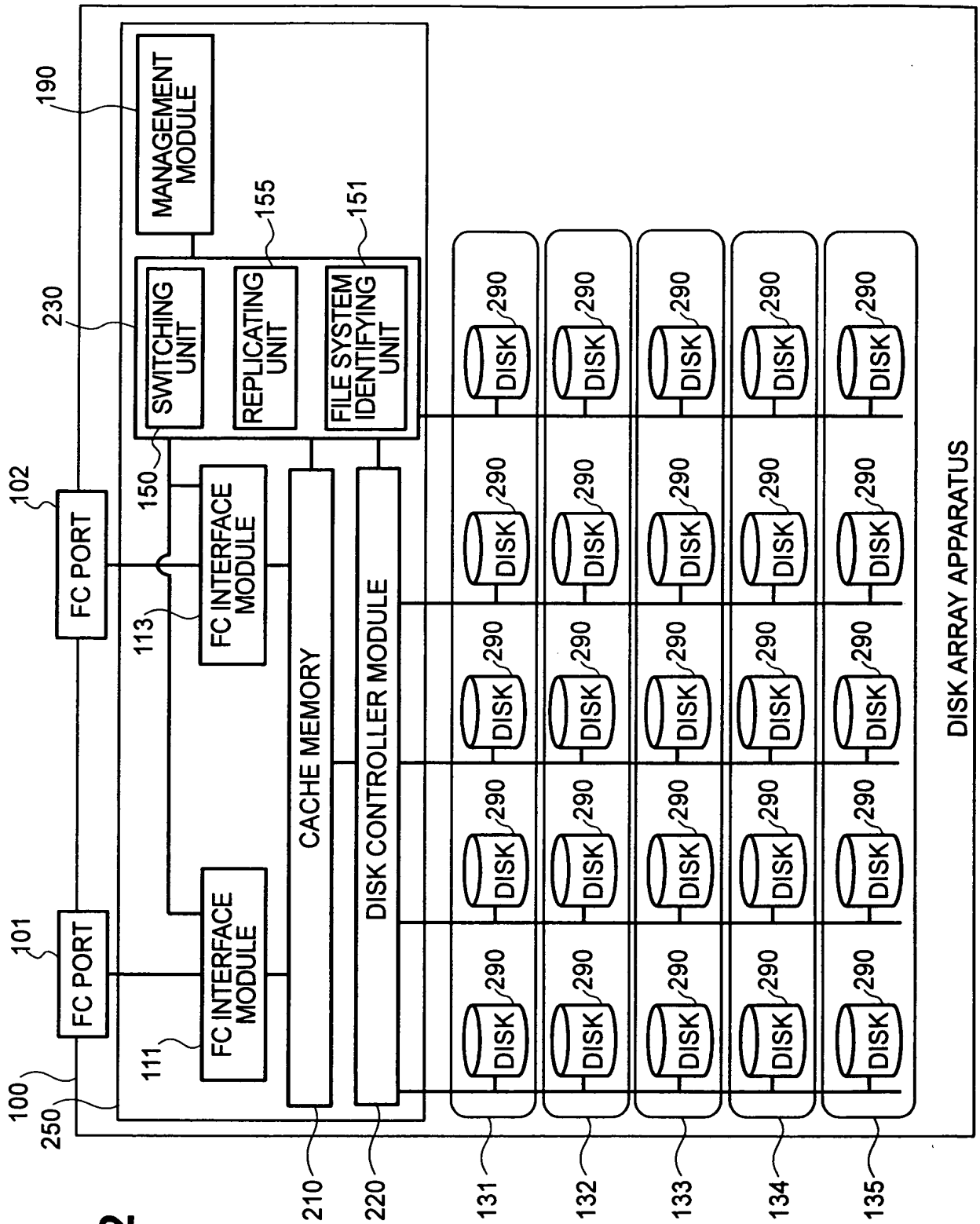


FIG.3

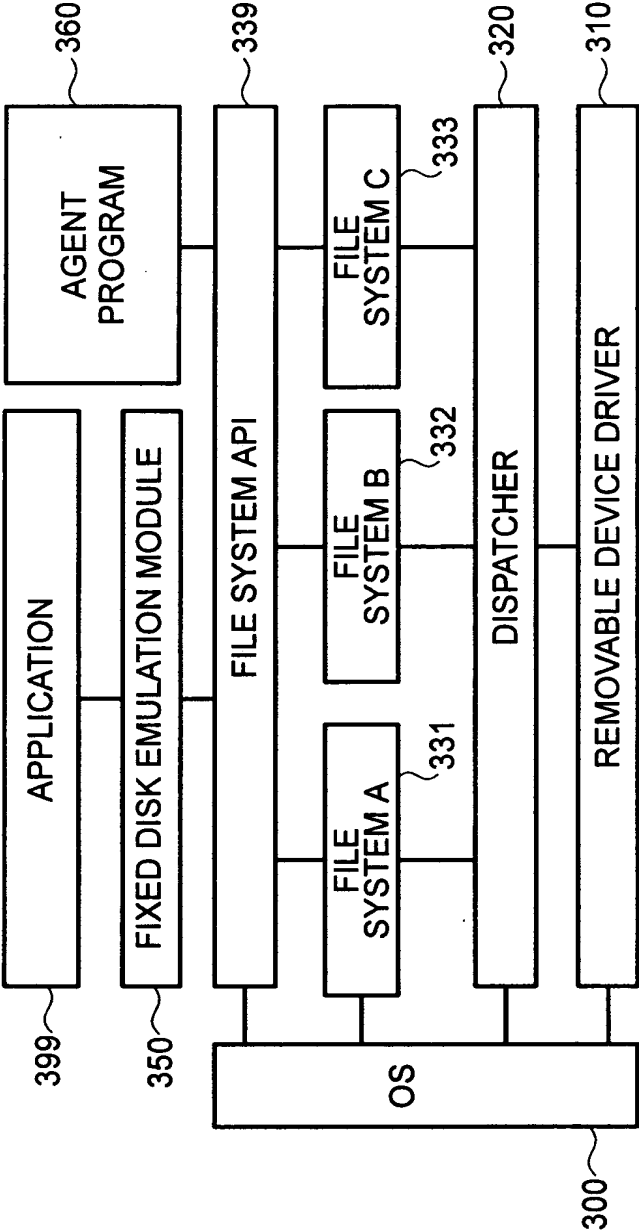


FIG.4

400

VOLUME NO.	CAPACITY	VIRTUAL REMOVABLE DRIVE NO.	WRITE PROTECT FLAG	FILE SYSTEM CLASSIFICATION INFORMATION	REPLICATED VOLUME NO.	SPLIT TIMESTAMP
131	100GB			FILE SYSTEM A		
132	100GB			FILE SYSTEM B		
133	100GB			FILE SYSTEM C		
134	100GB				135	
135	100GB					

FIG.5

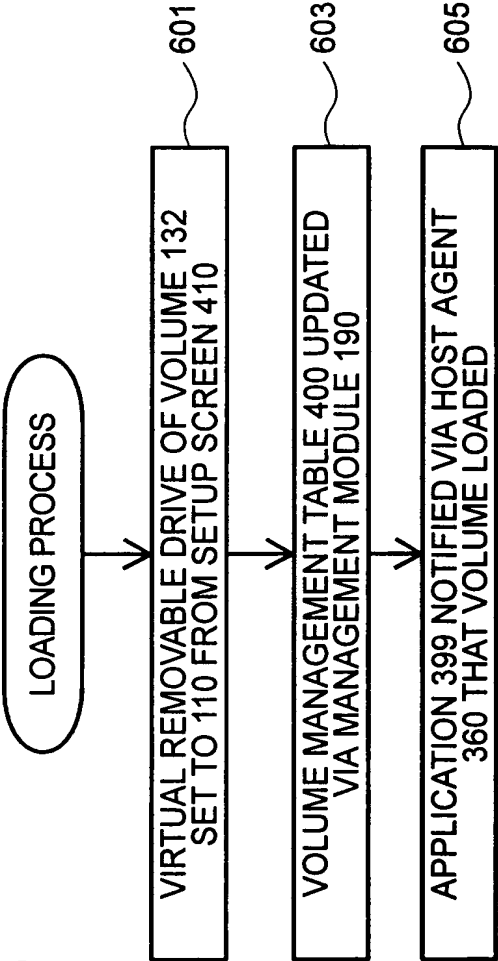
410

VOLUME MANAGEMENT TABLE OPERATING SCREEN							↑
VOLUME NO.	CAPACITY	VIRTUAL REMOVABLE DRIVE NO.	WRITE PROTECT FLAG	FILE SYSTEM CLASSIFICATION INFORMATION	REPLICATED VOLUME NO.	SPLIT TIMESTAMP	
131	100GB		↓	FILE SYSTEM A			
132	100GB	111	↓	FILE SYSTEM B			
133	100GB	110	↓	FILE SYSTEM C			
134	100GB	111 112	↓		135		
135	100GB	113	↓				↓

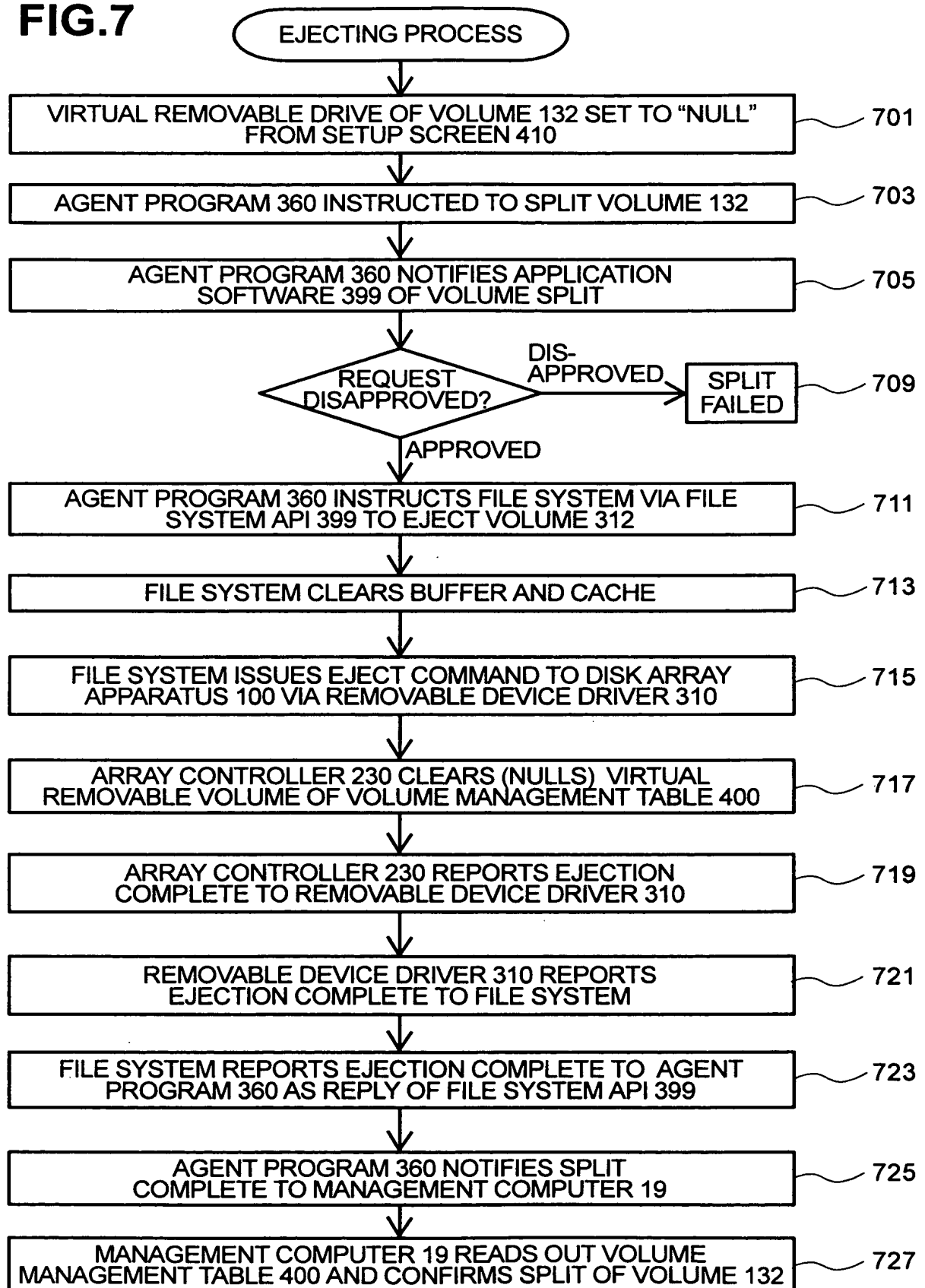
411

412

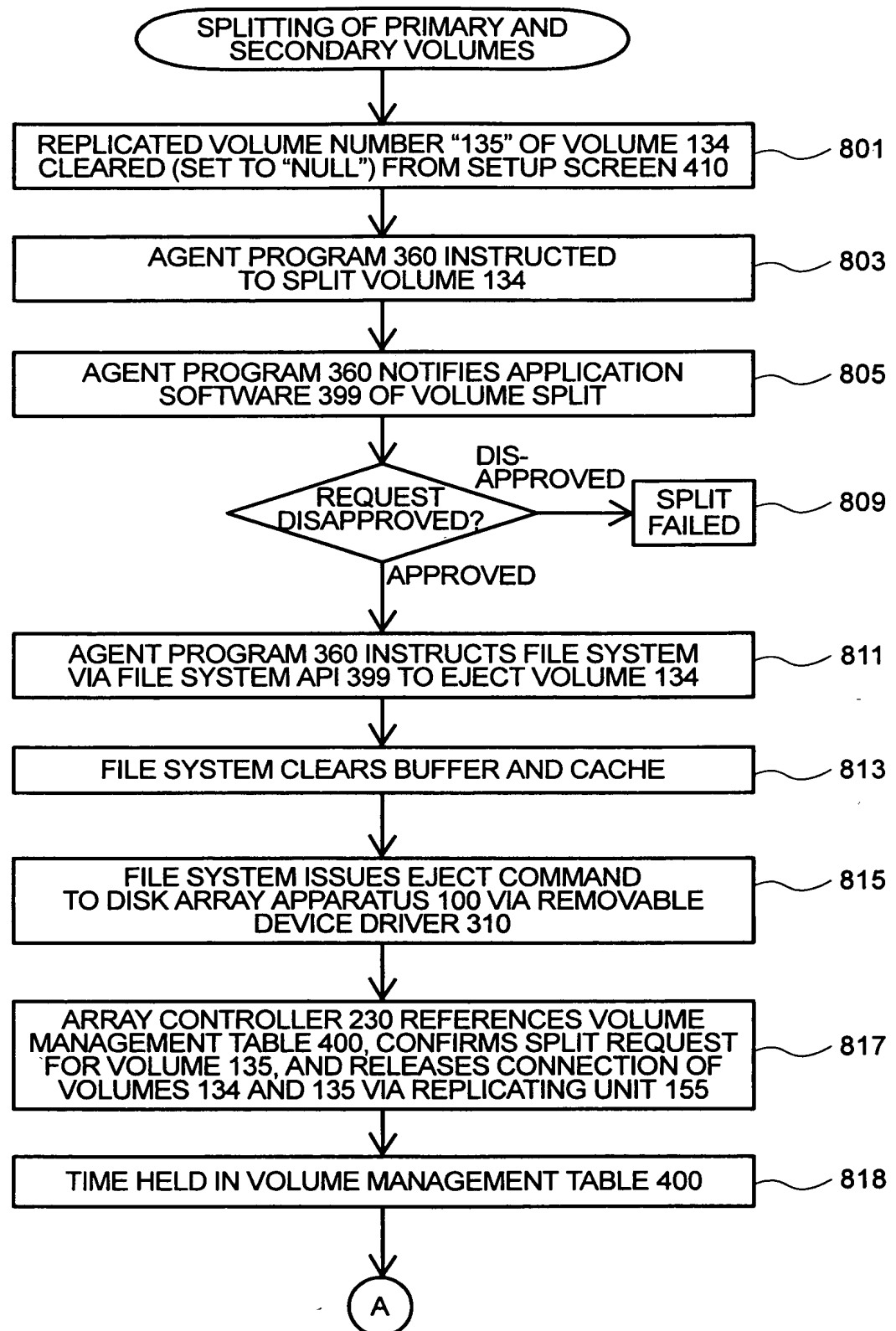
FIG.6



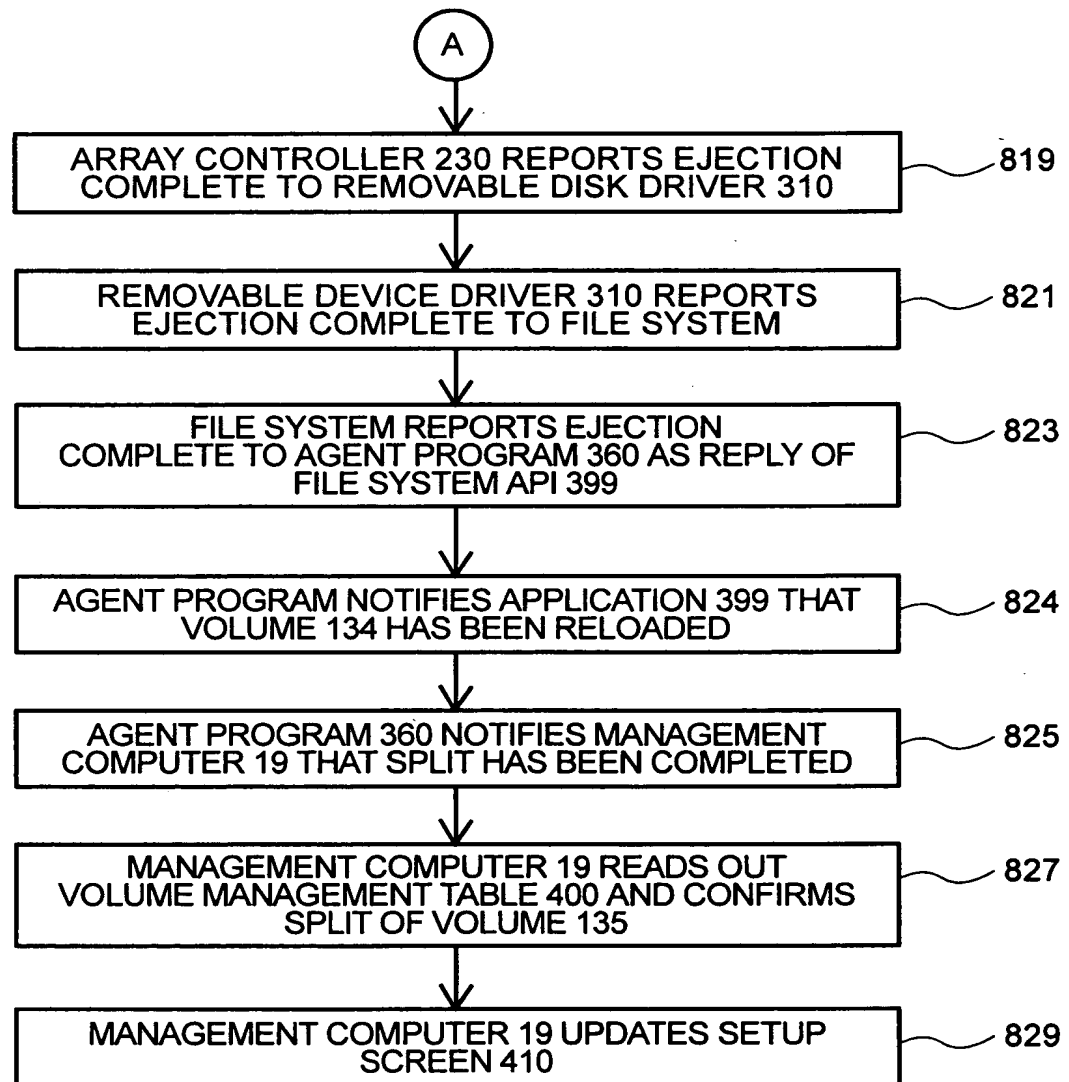
**FIG.7**



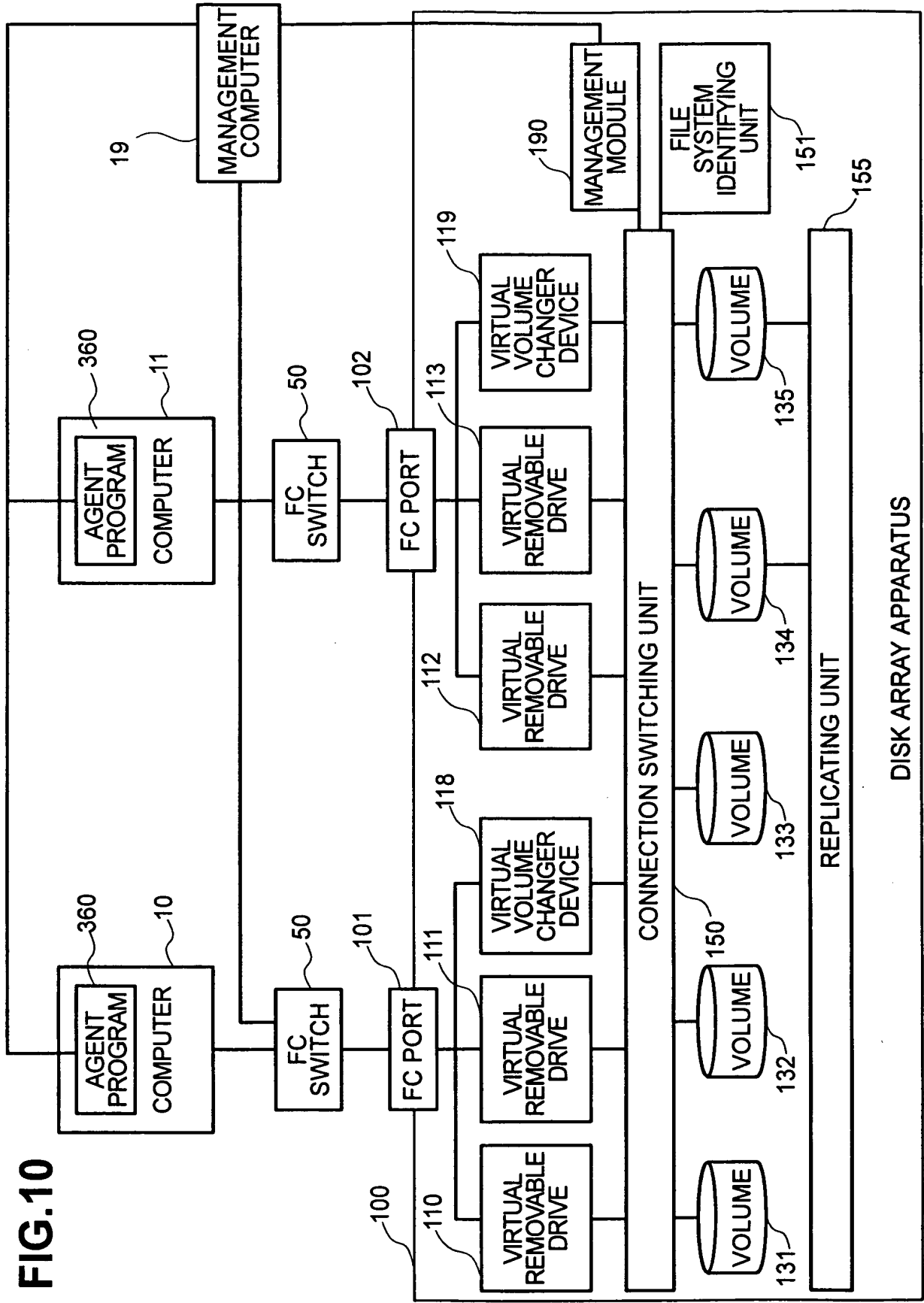
**FIG.8**



**FIG.9**



**FIG.10**





**FIG.11**

